

BEST AVAILABLE COPY**PATENT ABSTRACTS OF JAPAN**

(11)Publication number : 09-134624

(43)Date of publication of application : 20.05.1997

(51)Int.Cl.

H01B 13/00

H01B 12/16

(21)Application number : 07-315999

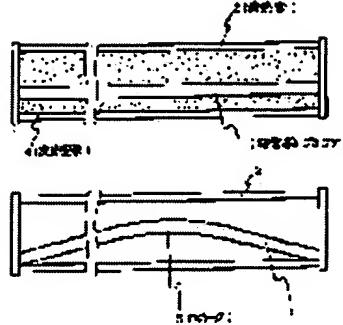
(71)Applicant : SUMITOMO ELECTRIC IND LTD
TOKYO ELECTRIC POWER CO
INC:THE

(22)Date of filing :

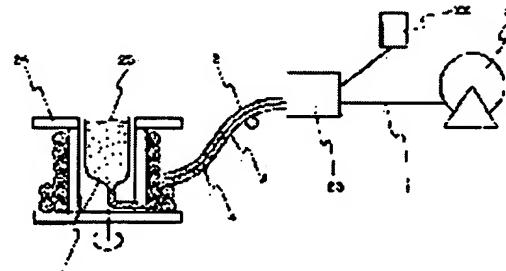
08.11.1995

(72)Inventor : SHIBATA TOSHIKAZU
HARA CHIKUSHI
ISHII HIDEO
HONJO SHOICHI**(54) MANUFACTURE OF SUPERCONDUCTING CABLE****(57)Abstract:**

PROBLEM TO BE SOLVED: To absorb lengthwise directional thermal contraction of a cable core at cooling time by housing a superconducting cable core in a heat insulating pipe, and snaking it by returning a temperature to a normal temperature by thermally contracting the cable core by supplying liquid nitrogen in the pipe.



SOLUTION: A cable core 1 having an excess length equivalent to thermal contraction is led in a heat insulating pipe 2, and liquid nitrogen 4 is sealed in the heat insulating pipe 2, and the core 1 is cooled, and is thermally contracted. Afterwards, the liquid nitrogen 4 is removed, and a temperature is returned to a normal temperature. An excess length quantity of the cable core necessary for thermal contraction becomes a snake 5 inside of the heat insulating pipe 2 by thermal expansion of the core 1 as a temperature returns to a normal temperature. The core 1 having an excess length of thermal contraction is delivered from a cable core supply drum 21, and the heat insulating pipe 2 is generated outside of it by a heat insulating pipe forming device 23, and the core 1 is housed in the pipe



2, and is wound in order round a drum 24. The liquid nitrogen is supplied in the pipe 2 wound round the drum 24 from a liquid nitrogen supply device 25 connected to an end part of the wound heat insulating pipe 2, and the core 1 is cooled, and is wound round the drum 24.

LEGAL STATUS

[Date of request for examination] 25.10.2001

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3512927

[Date of registration] 16.01.2004

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

BEST AVAILABLE COPY